

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference O.N. 63803	<b>FOR FURTHER ACTION</b>	See item 4 below
International application No. PCT/US2005/010807	International filing date ( <i>day/month/year</i> ) 30 March 2005 (30.03.2005)	Priority date ( <i>day/month/year</i> ) 30 March 2004 (30.03.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant WATERSTRIKE INCORPORATED		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application   |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Date of issuance of this report 04 October 2006 (04.10.2006)
Facsimile No. +41 22 338 82 70	Authorized officer  <div style="text-align: center; font-weight: bold;">Beate Giffo-Schmitt</div> e-mail: pt03@wipo.int

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:  
BRIAN F. SCHROEDER  
SCHROEDER & SIEGFRIED, P.A.  
15600 WAYZATA BOULEVARD  
SUITE 200  
WAYZATA, MN 55391

## PCT

REC'D 28 DEC 2005  
WIPO PCT

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year) <b>22 DEC 2005</b>	
<b>FOR FURTHER ACTION</b> See paragraph 2 below	
Applicant's or agent's file reference O.N. 63803	
International application No. PCT/US05/10807	International filing date (day/month/year) 30 March 2005 (30.03.2005)
Priority date (day/month/year) 30 March 2004 (30.03.2004)	
International Patent Classification (IPC) or both national classification and IPC IPC(7): G09G 3/00, 5/00; H04N 7/167, 13/04, 15/00 and US Cl.: 345/7-9, 32; 348/51-60; 380/210, 212, 213, 214, 235	
Applicant WATERSTRIKE INCORPORATED	

1. This opinion contains indications relating to the following items:

- |                                     |              |  |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the opinion   |
| <input type="checkbox"/>            | Box No. II   | Priority   |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability   |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention   |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited  |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application   |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application  |

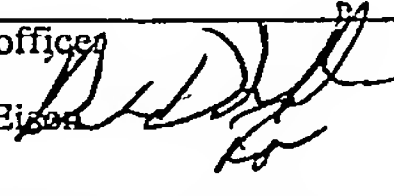
2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Date of completion of this opinion 20 October 2005 (20.10.2005)	Authorized officer Alexander Eizen  Telephone No. (571) 272-9700
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Form PCT/ISA/237 (cover sheet) (April 2005)

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US05/10807

**Box No. I Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/US05/10807

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>2-9, 11-13, 19-53, 55, 56</u>	YES
	Claims <u>1, 10, 14-18, 54</u>	NO
Inventive step (IS)	Claims <u>2-9, 11-13, 19-53, 55, 56</u>	YES
	Claims <u>1, 10, 14-18, 54</u>	NO
Industrial applicability (IA)	Claims <u>1-56</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and explanations:

Claims 1, 10, 14-18 and 54 lack novelty under PCT Article 33(2) as being anticipated by Hashida (SONY), JP 09-037192. With respect to claim 1 Hashida discloses an apparatus for confidential viewing (FIGS. 1-3) comprising an image display device (20) comprising a plurality of adjacent display regions of different polarization states (21, 22, see also paragraph [0017]); a plurality of spatially multiplexed fundamental image components A and masking image components being displayed on the image display device in association with the display regions and in such arrangement as to render the fundamental image components substantially undecipherable to the naked eye (special polarized glasses would require to see the image - see paragraph [0018]); the fundamental image components being representative of the fundamental image and being associated with the display regions having common state of polarization that is different from the state of polarization of the display regions with which the masking image components associated; and an image viewing device (glasses 23 and 24) having polarization means cooperating with the image device for allowing extraction and viewing only of the fundamental image components from the image display device.

As pertaining to claim 10, the polarization states of the display regions are fixed.

As per claim 14, the different polarization states are generally orthogonal to each other.

As per claim 15, some display regions are left-hand circularly polarized and some right-hand circularly polarized.

As to claim 16, the display regions associated with the fundamental image are cross polarized relative to the display regions associated with masking image.

As pertaining to claims 17 and 18 the display includes a transparent overlay (comprised of polarization plates 21 and 22) and has a periodic refresh rate inherent to this type of displays.

As pertaining to claim 54, Hashida discloses a method for confidential viewing of a fundamental image utilizing spatial multiplexing image modification as in claim 1 above and therefore lacks novelty for the same reason.

Claims 2-9, 11-13, 19-53, 55 and 56 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a confidential viewing apparatus and method associated therewith, having a plurality of adjacent display regions of different polarization states and a plurality of spatially multiplexed fundamental image components and masking image components, wherein the masking image components are derived as the inverse of the fundamental image components so as to form a combined image that appears substantially featureless to the naked eye of an observer.

Claims 1-56 meet the criteria set out in PCT Article 33(4), and thus possess industrial applicability because the subject matter claimed can be made or used in industry.